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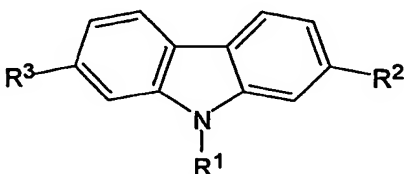
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- (71) Applicant (for all designated States except US): **UNIVERSITE LAVAL** [CA/CA]; Pavillon des Sciences de l'Éducation, local 1374, Quebec, Quebec G1K 7P4 (CA).
- (72) Inventors; and  
(75) Inventors/Applicants (for US only): **LECLERC, Mario** [CA/CA]; 145 Gérard-Morisset, App. 103, Quebec, Quebec G1S 4V5 (CA). **MORIN, Jean-François** [CA/CA]; 861 Rue Baugis, Beauport, Quebec G1C 5Z1 (CA).
- (74) Agents: **DUBUC, J. et al.**; Goudreau Gare Dubuc, Stock Exchange Tower, 800 Place Victoria, Suite 3400, P.O Box 242, Montreal, Quebec H4Z 1E9 (CA).
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(54) Title: MONOMERS, OLIGOMERS AND POLYMERS OF 2-FUNCTIONALIZED AND 2,7-DIFUNCTIONALIZED CARBAZOLES



(I)

(57) Abstract: The present invention relates to 2-functionalized and 2,7-di-functionalized carbazoles and 2,7-carbazolenevinylene oligomers and polymers. More specifically, the present invention relates to a compound of Formula (I): wherein R<sup>1</sup> is selected from the group consisting of H, alkyl, and aryl; and wherein R<sup>2</sup> and R<sup>3</sup> are independently selected from the group consisting of H, alkyl, formyl, hydroxymethyl, trityloxymethyl, acetonitrile, chloromethyl, methylphosphonate, methyltriphenylphosphonium and vinyl.

The oligomers and polymers are used in field-effect transistors, light-emitting devices such as light-emitting diodes, and solar cells.